



EZ320-BG

Bio Gas Analyzer

Based on NDIR & ECD

INSTRUMENT OVERVIEW

Bio gas analyzer is an advanced analytical instrument designed for the simultaneous and continuous measurement of gas concentrations, particularly in the context of bio gas applications. These gas analyzers utilize Non-Dispersive Infrared (NDIR) and Electron Capture Detector (ECD) technologies, offering a robust and efficient solution for monitoring up to four different gases.

BENEFITS

1. Measurement of CO₂, CH₄, O₂, H₂S, with customized measure range.
2. Modular sensor design ensures easy calibration & maintenance.
3. Optional gas conditioning device to remove vapor and dust to protect the analyzer.

| Components | Method | Measuring Range | Resolution | Precision | Repeatability |
|--|-----------------------------|-----------------|------------|-----------|---------------|
| CH ₄ | NDIR | 0~100% | 0.1% | ±2%FS | ±1%FS |
| CO ₂ | NDIR | 0~10% | 0.01% | ±2%FS | ±1%FS |
| O ₂ | ECD | 0~25% | 0.1% | ±2%FS | ±1%FS |
| H ₂ S | ECD | 100PPM | 1PPM | ±2%FS | ±1%FS |
| Note: Measuring range can be defined as customer request. | | | | | |
| Flow | 0.7~1.2L/min | | | | |
| Inlet Pressure | 2kPa~50kPa | | | | |
| Sampling Gas Condition | Moisture removed (no vapor) | | | | |
| Response time (TD+T90) | <10s (NDIR) | | | | |
| Warm Up Time | 800s | | | | |
| Communication | RS485 | | | | |
| Working Environment | | | | | |
| Work Temperature | 0~50°C | | | | |
| Relative Humidity | ≤95% | | | | |
| Ambient Pressure | 86kPa~108kPa | | | | |
| Power Supply | 230±10%VAC, 50Hz | | | | |

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